

$$I(u,v)=R(u,v)\sum_i(\max((\vec{l}_i\vec{L}_i\cdot\vec{N}(u,v)),0))\quad\text{-----}\quad(1)$$

$$I(u,v)=R(u,v)\vec{N}(u,v)\cdot\vec{L}\quad(\vec{L}=\sum_i\vec{l}_i\vec{L}_i)\quad\text{-----}\quad(2)$$

$$S=[\vec{K}_1\ \vec{K}_2\ \dots\ \vec{K}_N]$$

$$V=\frac{1}{N}SS^T\quad\text{-----}\quad(3)$$

$$\frac{\sum_{i=1}^M\sigma_i}{\sum_{i=1}^N\sigma_i}\times100[\%]\quad\text{-----}\quad(4)$$

$$\frac{\sum_{i=1}^M\sigma_i}{\sum_{i=1}^N\sigma_i}\geq0.95\quad\text{-----}\quad(5)$$

$$\vec{I}_c=\sum_{i=1}^M(\vec{I}_q\cdot\vec{B}_i)\vec{B}_i\quad\text{-----}\quad(6)$$

$$D=|\vec{I}_q-\vec{I}_c|^2\quad\text{-----}\quad(7)$$

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$$\left(\frac{x_1+x_2}{2}, \frac{y_1+y_2}{2}, \frac{z_1+z_2}{2} \right) \text{-----} (8)$$

$$\begin{bmatrix} u_i \\ v_i \end{bmatrix} = \frac{f}{c} \begin{bmatrix} a \\ b \end{bmatrix} \text{-----} (9)$$

$$\begin{bmatrix} a \\ b \\ c \end{bmatrix} = R \begin{bmatrix} x_i \\ y_i \\ z_i \end{bmatrix} + \begin{bmatrix} T_x \\ T_y \\ T_z \end{bmatrix} \text{-----} (10)$$

$$R = \begin{bmatrix} \cos R_y \cos R_z - \cos R_x \sin R_z + \sin R_x \sin R_y \cos R_z & \sin R_z \sin R_x + \cos R_x \sin R_y \cos R_z \\ \cos R_y \sin R_z & \cos R_x \cos R_z + \sin R_x \sin R_y \sin R_z & -\sin R_x \cos R_z + \cos R_x \sin R_y \sin R_z \\ -\sin R_y & \sin R_x \cos R_y & \cos R_x \cos R_y \end{bmatrix} \text{-----} (11)$$